

Mara Lujn Ferreira

List of Publications by Citations

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73
papers

1,569
citations

20
h-index

37
g-index

74
ext. papers

1,792
ext. citations

4.1
avg, IF

5.03
L-index

#	Paper	IF	Citations
73	Novozym 435: the perfect lipase immobilized biocatalyst?. <i>Catalysis Science and Technology</i> , 2019 , 9, 2380-2420	5.5	241
72	PLA nano- and microparticles for drug delivery: an overview of the methods of preparation. <i>Macromolecular Bioscience</i> , 2007 , 7, 767-83	5.5	238
71	Burkholderia cepacia lipase: A versatile catalyst in synthesis reactions. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 6-24	4.9	52
70	The effect of pH in the adsorption of Alizarin and Eriochrome Blue Black R onto iron oxides. <i>Journal of Hazardous Materials</i> , 2009 , 168, 168-78	12.8	51
69	Investigation of the causes of deactivation/degredation of the commercial biocatalyst Novozym 435 in ethanol and ethanol aqueous media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011 , 71, 95-107		50
68	Preparation of iron oxide nanoparticles stabilized with biomolecules: experimental and mechanistic issues. <i>Acta Biomaterialia</i> , 2013 , 9, 4754-62	10.8	49
67	Enantioselective esterification of ibuprofen with ethanol as reactant and solvent catalyzed by immobilized lipase: experimental and molecular modeling aspects. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 1461-1473	3.5	48
66	Nanosized magnetite in low cost materials for remediation of water polluted with toxic metals, azo- and antraquinonic dyes. <i>Frontiers of Environmental Science and Engineering</i> , 2015 , 9, 746-769	5.8	42
65	Relation between lipase structures and their catalytic ability to hydrolyse triglycerides and phospholipids. <i>Enzyme and Microbial Technology</i> , 2007 , 41, 35-43	3.8	37
64	Adsorption of Alizarin, Eriochrome Blue Black R, and Fluorescein Using Different Iron Oxides as Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8255-8263	3.9	36
63	FTIR-ATR characterization of free Rhizomucor meihei lipase (RML), Lipozyme RM IM and chitosan-immobilized RML. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011 , 72, 220-228		34
62	Cross-linked enzyme aggregates (CLEAs) of selected lipases: a procedure for the proper calculation of their recovered activity. <i>AMB Express</i> , 2013 , 3, 25	4.1	32
61	Elimination of dyes from aqueous solutions using iron oxides and chitosan as adsorbents: a comparative study. <i>Quimica Nova</i> , 2009 , 32, 1239-1244	1.6	32
60	Eriochrome Blue Black R and Fluorescein degradation by hydrogen peroxide oxidation with horseradish peroxidase and hematin as biocatalysts. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010 , 66, 63-71		32
59	Strengthening of polypropylene/glass fiber interface by direct metallocenic polymerization of propylene onto the fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1915-1923	8.4	30
58	Quantification of immobilized Candida antarctica lipase B (CALB) using ICP-AES combined with Bradford method. <i>Enzyme and Microbial Technology</i> , 2017 , 97, 97-103	3.8	26
57	Hydrogenation of edible oil over Pd catalysts: A combined theoretical and experimental study. <i>Journal of Molecular Catalysis A</i> , 2005 , 237, 67-79		25

56	Fabrication of ferrogels using different magnetic nanoparticles and their performance on protein adsorption. <i>Polymer International</i> , 2014 , 63, 258-265	3.3	22
55	The Co-adsorption of tetramethylpiperidine and TiCl ₄ on EMgCl ₂ . A theoretical study of a Ziegler-Natta pre-catalyst. <i>Journal of Molecular Catalysis A</i> , 1997 , 122, 25-37		22
54	Study of the reaction mechanism of the transesterification of triglycerides catalyzed by zinc carboxylates. <i>Journal of Molecular Catalysis A</i> , 2013 , 377, 29-41		21
53	Development of a magnetic biocatalyst useful for the synthesis of ethyl oleate. <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 585-91	3.7	19
52	Enzymatic synthesis of 1,3-dicaproylglycerol by esterification of glycerol with capric acid in an organic solvent system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 100, 7-18		18
51	PLGA based drug delivery systems (DDS) for the sustained release of insulin: insight into the protein/polyester interactions and the insulin release behavior. <i>Journal of Chemical Technology and Biotechnology</i> , 2010 , 85, 1588-1596	3.5	18
50	Removal of Fluorescein using different iron oxides as adsorbents: effect of pH. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 636-43	4.4	18
49	Esterification of R/S-ketoprofen with 2-propanol as reactant and solvent catalyzed by Novozym 435 at selected conditions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012 , 83, 108-119		17
48	A review of magnetic separation of whey proteins and potential application to whey proteins recovery, isolation and utilization. <i>Journal of Food Engineering</i> , 2019 , 246, 7-15	6	17
47	An insight on acyl migration in solvent-free ethanolysis of model triglycerides using Novozym 435. <i>Journal of Biotechnology</i> , 2016 , 220, 92-9	3.7	16
46	Lipase-catalyzed acidolysis of tripalmitin with capric acid in organic solvent medium: Analysis of the effect of experimental conditions through factorial design and analysis of multiple responses. <i>Enzyme and Microbial Technology</i> , 2010 , 46, 419-29	3.8	16
45	Synthesis of Polycaprolactone Using Free/Supported Enzymatic and Non-Enzymatic Catalysts. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 2025-2028	4.8	16
44	Efficiency of enzymatic and non-enzymatic catalysts in the synthesis of insoluble polyphenol and conductive polyaniline in water. <i>Biochemical Engineering Journal</i> , 2006 , 29, 191-203	4.2	15
43	Partial hydrogenation of sunflower oil: Use of edible modifiers of the cis/trans-selectivity. <i>Journal of Molecular Catalysis A</i> , 2009 , 299, 88-92		14
42	UV/Visible Study of the Reaction of Oxidoreductases and Model Compounds with H ₂ O ₂ . <i>Macromolecular Bioscience</i> , 2003 , 3, 179-188	5.5	14
41	Towards a green enantiomeric esterification of R/S-ketoprofen: A theoretical and experimental investigation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 118, 52-61		13
40	Influence of the nature of the support on the catalytic performance of CALB: experimental and theoretical evidence. <i>Catalysis Science and Technology</i> , 2018 , 8, 3513-3526	5.5	13
39	Copolymerization of polypropylene and functionalized linear Eblefin onto glass fibers. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 1266-1276	2.9	13

38	Immobilization of CALB on lysine-modified magnetic nanoparticles: influence of the immobilization protocol. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 171-184	3.7	12
37	Optimization of the Enzymatic Synthesis of Pentyl Oleate with Lipase Immobilized onto Novel Structured Support. <i>Fermentation</i> , 2019 , 5, 48	4.7	12
36	Experimental design and MM2BM6 molecular modelling of hematin as a peroxidase-like catalyst in Alizarin Red S degradation. <i>Journal of Molecular Catalysis A</i> , 2012 , 355, 44-60		12
35	Evaluation of hematin-catalyzed Orange II degradation as a potential alternative to horseradish peroxidase. <i>International Biodeterioration and Biodegradation</i> , 2012 , 73, 60-72	4.8	11
34	Chemical anchorage of polypropylene onto glass fibers: Effect on adhesion and mechanical properties of their composites. <i>International Journal of Adhesion and Adhesives</i> , 2013 , 43, 26-31	3.4	10
33	Lipase-catalyzed copolymerization of lactic and glycolic acid with potential as drug delivery devices. <i>Bioprocess and Biosystems Engineering</i> , 2008 , 31, 499-508	3.7	10
32	Kinetic modelling of the hematin catalysed decolourization of Orange II solutions. <i>Chemical Engineering Science</i> , 2017 , 161, 127-137	4.4	9
31	Ethylene and Propylene Polymerization Using In Situ Supported Me ₂ Si(Ind) ₂ ZrCl ₂ Catalyst: Experimental and Theoretical Study. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 279-287	3.9	9
30	Novel synthesis of polyethylene-poly(dimethylsiloxane) copolymers with a metallocene catalyst. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 2462-2473	2.5	9
29	Unusual volumetric and hydration behavior of the catanionic system sodium undecenoate: sodocyltrimethylammonium bromide. <i>Colloid and Polymer Science</i> , 2005 , 283, 1016-1024	2.4	9
28	Screening of Lipases with Unusual High Activity in the sn-2 Esterification of 1,3-Dicaprin under Mild Operating Conditions. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 5010-5017	5.7	8
27	The interaction between water vapor and chitosan II: Computational study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 315, 241-249	5.1	8
26	Challenges of dye removal treatments based on IONzymes: Beyond heterogeneous Fenton. <i>Journal of Water Process Engineering</i> , 2021 , 41, 102065	6.7	8
25	About the role of typical spacer/crosslinker on the design of efficient magnetic biocatalysts based on nanosized magnetite. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 122, 296-304		7
24	Magnetic solid-phase extraction: A nanotechnological strategy for cheese whey protein recovery. <i>Journal of Food Engineering</i> , 2019 , 263, 380-387	6	7
23	Supported biocatalysts for Alizarin and Eriochrome Blue Black R degradation using hydrogen peroxide. <i>Chemical Engineering Journal</i> , 2012 , 204-206, 65-71	14.7	7
22	A Proposed Mechanism for Olefin Polymerization, 1. C _{2v} , C ₂ and C _s Zirconocene Catalysts. <i>Macromolecular Theory and Simulations</i> , 2002 , 11, 250	1.5	7
21	Molecular recognition of an acyl-enzyme intermediate on the lipase B from <i>Candida antarctica</i> . <i>Catalysis Science and Technology</i> , 2017 , 7, 1953-1964	5.5	6

20	Chemical grafting of metallocene-catalyzed functional polypropylene copolymer on glass substrates through surface modification. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 2815-2822	2.9	6
19	A Proposed Mechanism for Olefin Polymerization, 2. EHMO and MM2 Study. <i>Macromolecular Theory and Simulations</i> , 2002 , 11, 267	1.5	6
18	Comparative characterization of MgCl ₂ /ethyl benzoate/TiCl ₄ and MgCl ₂ /2,2,6,6-tetramethylpiperidine/TiCl ₄ Ziegler-Natta precatalysts. <i>Journal of Polymer Science Part A</i> , 1994 , 32, 1137-1147	2.5	6
17	Valorization of Glycerol through the Enzymatic Synthesis of Acylglycerides with High Nutritional Value. <i>Catalysts</i> , 2020 , 10, 116	4	5
16	Explanation of experimental results of mixed micelles of homologous surfactants through a MM2 bidimensional modeling. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14924-33	3.4	5
15	Molecular modeling of the mechanism of ethyl fatty ester synthesis catalyzed by lipases. Effects of structural water and ethanol initial co-adsorption with the fatty acid. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009 , 61, 289-295		4
14	Characterization and evaluation of supported rac-dimethylsilylenebis(indenyl)zirconium dichloride on ethylene polymerization. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 563-571	2.9	4
13	Modified chitosan as an economical support for hematin: application in the decolorization of anthraquinone and azo dyes. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1665-1676	3.5	3
12	Separation of Acylglycerides Obtained by Enzymatic Esterification Using Solvent Extraction. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2014 , 91, 261-270	1.8	3
11	Self Diffusivity of n-Dodecane and Benzothiophene in ZSM-5 Zeolites. Its Significance for a New Catalytic Light Diesel Desulfurization Process. <i>International Journal of Chemical Reactor Engineering</i> , 2016 , 14, 737-748	1.2	2
10	Immobilization and bioimprinting strategies to enhance the performance in organic medium of the metagenomic lipase LipC12. <i>Journal of Biotechnology</i> , 2021 , 342, 13-27	3.7	2
9	Simple and economical CALB/polyethylene/aluminum biocatalyst for fatty acid esterification. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 1002-1006	3.2	1
8	Potential applications of spent adsorbents and catalysts: Re-valorization of waste.. <i>Science of the Total Environment</i> , 2022 , 823, 153370	10.2	1
7	Low-cost nanoparticulate oxidation catalysts for the removal of azo and anthraquinic dyes. <i>Journal of Environmental Health Science & Engineering</i> , 2021 , 19, 721-731	2.9	1
6	Application of metal complexes as biomimetic catalysts on glycerol oxidation. <i>Molecular Catalysis</i> , 2020 , 481, 110236	3.3	1
5	Production of Plant Proteases and New Biotechnological Applications: An Updated Review.. <i>ChemistryOpen</i> , 2022 , 11, e202200017	2.3	1
4	Influencia del Recubrimiento de las Fibras de Vidrio sobre la Efectividad de la Reacci3n de Copolimerizaci3n Propileno-Vidrio. <i>Informacion Tecnologica (discontinued)</i> , 2011 , 22, 77-82	0.9	
3	What Problems Arise When Enzymatic Synthesis of Structured Di- and Triglycerides Is Performed?. <i>Springer Briefs in Molecular Science</i> , 2017 , 35-54	0.6	

- 2 Industrial Perspectives Which Have to Be Taken into Account to Scale from the Laboratory to Industry?. *Springer Briefs in Molecular Science*, **2017**, 63-72 o.6
- 1 Literature Review: What Has Been Explored About Enzymatic Synthesis of ST and SD?. *Springer Briefs in Molecular Science*, **2017**, 17-34 o.6